

STRUCTURE G-350A

Seepage return pump station G-350A will control and maintain water levels in the south seepage collection canal for STA-5. This structure is located on the south perimeter levee of STA-5, approximately 0.5 mile east of the L-2 borrow canal. It is just east of structure G-360A.

PURPOSE

The purpose of these pump stations is to return seepage from the south seepage collection canal into treatment cell 2A, at the confluence of the inflow and spreader canals. In addition, working in conjunction with pump stations G-350B, it can also be utilized in times of drought for the purpose of providing supplemental water to the treatment cells to prevent dry-out. No water quality sampling is required by permit at the pump station.

OPERATION

The G-350A structure has (2) 20 inch diameter axial flow pumps with 60-Hp electric powered engines. During seepage return operations, slide gates on the G-343 structures will be opened to allow recycled seepage to enter into treatment cell 2B for water level maintenance.

Additional operational guidance for the G-350A is based on best professional judgement of operating personnel, taking field condition factors into consideration such existing water levels within the treatment cells, existing vegetative conditions, off-site conditions and seasonality.

DESCRIPTION OF STRUCTURE

Size and Type of Pump:	<u>20-inch diameter axial flow pumps with 60 Hp electric powered engines</u>
Number of pumps:	2 per station
Design rating:	<u>17.8 c.f.s. each at maximum static head of 8.25 feet</u> <u>26.9 c.f.s. each at minimum static head of 4.0 feet</u>
Headwater Design:	<u>9.0 feet NGVD</u>
Design Tailwater:	<u>16.25 feet NGVD</u>
Engine Horsepower:	<u>60 Hp each</u>
Motor Speed:	<u>1700 rpm</u>
Normal Pump Operating Speed:	<u>740 rpm</u>

HYDRAULIC AND HYDROLOGIC MEASUREMENTS

Water Level: On-site staff gauges for local operation and remote digital headwater & tailwater recorders

Pump: Remote, status recorder

POWER SOURCE

Station Power: Normal - Commercial electricity

Date Acceptance into Service: October 1999 *

- * Temporary operations authorized for 14-day period in response to Hurricane Irene. Routine operations began June 2000.

DEWATERING FACILITIES (per gate): None

ACCESS: This structure is located on the southern perimeter levee of STA-5. From US 27 take CR 835 South, left on L-1 Borrow Canal Levee 11 miles south to STA-5.